

AN: PAT 2001-316459  
TI: Variable control device for capacitive setting element in fuel injector has charge storage device with charging and discharging devices each having controlled switch operated by pulse-width modulated signal  
PN: WO200133061-A1  
PD: 10.05.2001  
AB: The control device has a charge storage capacitor (3) which is charged to a given voltage via an energy source (2), with a series circuit containing the primary winding of a transformer (4) and a charging device connected in parallel with the charge storage capacitor. The transformer secondary winding is connected in series with a discharging device and the capacitive setting element (1). The charging and/or discharging device is provided by a switch (71,81), a current measuring device (72,82), a reference signal source (92) and a comparator (75,85) for controlled operation of the switch via a pulse-width modulated signal.; USE - Device is used for variable control of capacitive setting element, e.g. piezoelement for i. c. engine fuel injector. ADVANTAGE - Control device provides variable charging and discharging voltage characteristics for capacitive setting element.  
PA: (SIEI ) SIEMENS AG;  
IN: BAUSEWEIN A; CHEMISKY E; GOTTLIEB B; KAPPEL A; MEIXNER H;  
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